

AMENDMENTS TO THE CLAIMS

This listing of claims, if entered, will replace all prior versions and listings of claims in the present Application.

Listing of Claims

1. (Currently amended) A computer-implemented method comprising:
synchronizing **inventory transaction information of a computerized inventory management system comprising** a source computerized inventory management system **executing on a first computer** and a target computerized inventory management system **executing on a second computer**, wherein said synchronizing is bidirectional, and
said synchronizing comprises
extracting inventory transaction information in a **first form source format** that is associated with **[[a]] the** source computerized inventory management system;
converting the inventory transaction information in the **first form source format** into inventory transaction information that is in **a-second an intermediate form format**; and
converting the inventory transaction information in the **second intermediate form format** into inventory transaction information in a target **form format** that corresponds to **[[a]] the** target computerized inventory management system.

2. **(Currently amended)** The computer-implemented method of Claim 1, further comprising:
using the inventory transaction information in the target ~~form~~ **format** to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target computerized inventory management system; and
updating an existing inventory transaction record in the target computerized inventory management system.
3. **(Currently amended)** The computer-implemented method of Claim 1, further comprising:
extracting inventory transaction information in a ~~third form~~ **second source format** that is associated with a second source computerized inventory management system that is distinct from the source computerized inventory management system;
converting the inventory transaction information in the ~~third form~~ **second source format** into inventory transaction information that is in the ~~second~~ intermediate ~~form~~ **format**;
converting the inventory transaction information in the ~~second~~ intermediate ~~form~~ **format** into inventory transaction information in the target ~~form~~ **format**; and
using the inventory transaction information in the target ~~form~~ **format** to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target computerized inventory management system; and

updating an existing inventory transaction record in the target computerized inventory management system.

4. **(Currently amended)** The computer-implemented method of Claim 1, wherein the ~~second~~ intermediate ~~form~~ format ~~includes~~ comprises a list of inventory transactions class with a hierarchy of data elements, wherein the hierarchy of data elements ~~includes~~ comprises a plurality of inventory transaction elements which ~~include~~ comprise other elements.
5. **(Currently amended)** The computer-implemented method of Claim 4, wherein each of the plurality of inventory transaction elements ~~includes~~ comprises:
an inventory transaction identifier;
a base data element for defining:
 - a transaction comments element;
 - a transaction date;
 - a transaction quantity of items;
 - a transaction time;
 - a transaction type code; and
 - a transaction unit of measure code;a list of identifier data element for defining identifier data that is specific to a product or item.;
a location data element for defining a destination location data element and a source location data element;
a related product element for defining a product or item identifier;
a related document data element for defining a related purchase order element; and
a custom data element for defining customized attributes for the inventory transaction information.

6. **(Currently amended)** The computer-implemented method of Claim 5, wherein:
- the identifier data element ~~includes~~ **comprises** a product serial number or an item serial number;
- the destination location data element ~~includes~~ **comprises** a destination bucket code element and a destination inventory location identifier element;
- the source location data element ~~includes~~ **comprises** a source bucket code element and a source inventory location identifier; and
- the related purchase order element ~~includes~~ **comprises** a purchase order element for defining purchase-order-type elements that ~~include~~ **comprise**:
- a common object row identifier element;
- a purchase order base data element wherein the purchase order base data element ~~includes~~ **comprises** a purchase order number;
- a list of purchase order line item element, wherein the list of purchase order line item element ~~includes~~ **comprises** a plurality of purchase order line items; and
- a purchase order custom data element.
7. **(Currently amended)** The computer-implemented method of Claim 6, wherein each of the plurality of purchase order line items ~~includes~~ **comprises**:
- a purchase order line item number identifier element;
- a purchase order line item base data element; and
- a purchase order line item custom data element.

8. **(Currently amended)** The computer-implemented method of Claim 7, wherein the purchase order line item base data element ~~includes~~ **comprises** a purchase order line item number.

9. **(Currently amended)** A computer-readable medium carrying one or more sequences of instructions for managing inventory, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform:

synchronizing **inventory transaction information of a computerized inventory management system comprising** a source computerized inventory management system **executing on a first computer** and a target computerized inventory management system **executing on a second computer**, wherein

said synchronizing is bidirectional, and

said synchronizing comprises

 - extracting inventory transaction information in a ~~first form~~ **source format** that is associated with ~~[[a]] the~~ source computerized inventory management system;
 - converting the inventory transaction information in the ~~first form~~ **source format** into inventory transaction information that is in ~~a second an~~ intermediate ~~form~~ **format**; and
 - converting the inventory transaction information in the ~~second~~ intermediate ~~form~~ **format** into inventory transaction information in a target ~~form~~ **format** that corresponds to ~~[[a]] the~~ target computerized inventory management system.

10. **(Currently amended)** The computer-readable medium of Claim 9, further comprising:
using the inventory transaction information in the target ~~form~~ **format** to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target computerized inventory management system; and
updating an existing inventory transaction record in the target computerized inventory management system.
11. **(Currently amended)** The computer-readable medium of Claim 9, further comprising:
extracting inventory transaction information in a ~~third form~~ **second source format** that is associated with a second source computerized inventory management system that is distinct from the source computerized inventory management system;
converting the inventory transaction information in the ~~third form~~ **second source format** into inventory transaction information that is in the ~~second~~ intermediate ~~form~~ **format**;
converting the inventory transaction information in the ~~second~~ intermediate ~~form~~ **format** into inventory transaction information in the target ~~form~~ **format**; and
using the inventory transaction information in the target ~~form~~ **format** to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target computerized inventory management system; and

updating an existing inventory transaction record in the target computerized inventory management system.

12. **(Currently amended)** The computer-readable medium of Claim 9, wherein the ~~second~~ intermediate ~~form~~ ~~format~~ **includes comprises** a list of inventory transactions class with a hierarchy of data elements.
13. **(Currently amended)** The computer-readable medium of Claim 12, wherein the hierarchy of data elements **includes comprises** a plurality of inventory transaction elements which ~~include~~ **comprise** other elements.
14. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements **includes comprises** an inventory transaction identifier.
15. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements **includes comprises** a base data element for defining:
 - a transaction comments element;
 - a transaction date;
 - a transaction quantity of items;
 - a transaction time;
 - a transaction type code; and
 - a transaction unit of measure code.
16. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements **includes comprises** a list of identifier data element for defining identifier data that is specific to a product or item.

17. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements ~~includes~~ comprises a location data element for defining a destination location data element and a source location data element.
18. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements ~~includes~~ comprises a related product element for defining a product or item identifier.
19. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements ~~includes~~ comprises a related document data element for defining a related purchase order element.
20. **(Currently amended)** The computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements ~~includes~~ comprises a custom data element for defining customized attributes for the inventory transaction information.
21. **(Currently amended)** The computer-readable medium of Claim 16, wherein the identifier data element ~~includes~~ comprises a product serial number or an item serial number.
22. **(Currently amended)** The computer-readable medium of Claim 17, wherein the destination location data element ~~includes~~ comprises a destination bucket code element, which in turn ~~includes~~ comprises a destination inventory location identifier.

23. **(Currently amended)** The computer-readable medium of Claim 17, wherein the source location data element ~~includes~~ comprises a source bucket code element, which in turn ~~includes~~ comprises a source inventory location identifier.
24. **(Currently amended)** The computer-readable medium of Claim 19, wherein the related purchase order element ~~includes~~ comprises a purchase order element for defining purchase order elements that ~~include~~ comprise:
- a common object row identifier element;
 - a purchase order base data type element;
 - a list of purchase order line item element; and
 - a purchase order custom data element.
25. **(Currently amended)** The computer-readable medium of Claim 24, wherein the purchase order base data type element ~~includes~~ comprises a purchase order number.
26. **(Currently amended)** The computer-readable medium of Claim 24, wherein the list of purchase order line item element ~~includes~~ comprises a plurality of purchase order line items.
27. **(Currently amended)** The computer-readable medium of Claim 26, wherein each of the plurality of purchase order line items ~~includes~~ comprises:
- a purchase order line item number identifier element;
 - a purchase order line item base data element; and
 - a purchase order line item custom data element.

28. (Currently amended) The computer-readable medium of Claim 27, wherein the purchase order line item base data element ~~includes~~ comprises a purchase order line item number.
29. (Currently amended) A system, comprising:
a processor;
an interconnect coupled to the processor;
a computer-readable storage medium, coupled to the processor via the interconnect,
the computer-readable storage medium further comprising:
instructions, when executed by the processor, for synchronizing inventory transaction information of a computerized inventory management system comprising a source computerized inventory management system executing on a first computer and a target computerized inventory management system executing on a second computer,
wherein
said instructions for synchronizing are configured to perform
bidirectional synchronization, and
said instructions for synchronizing comprise
instructions, when executed by the processor, for
extracting inventory information in a ~~first form~~ source format that is associated with ~~[[a]]~~ the source computerized inventory management system;
instructions, when executed by the processor, for
converting the inventory transaction information in the ~~first form~~ source format into inventory transaction information that is in ~~a second~~ an intermediate ~~form~~ format;
instructions, when executed by the processor, for
converting the inventory transaction information in the ~~second~~ intermediate ~~form~~ format into inventory transaction information in a target

~~form~~ **format** that corresponds to ~~[[a]]~~ **the** target computerized inventory management system;
and
a data structure for managing inventory, the data structure comprising
a list of inventory transactions class with a hierarchy of data elements, wherein
the hierarchy of data elements comprises a plurality of inventory transaction element, and each of the plurality of inventory transaction elements is configured to store the inventory transaction information in the ~~second~~ intermediate ~~form~~ **format**.

30. **(Currently amended)** The data structure of Claim 29, wherein each of the plurality of inventory transaction elements ~~includes~~ **comprises**:

an inventory transaction identifier;

a base data element for defining:

a transaction comments element;

a transaction date;

a transaction quantity of items;

a transaction time;

a transaction type code; and

a transaction unit of measure code;

a list of identifier data element for defining identifier data that is specific to a product or item;

a location data element for defining a destination location data element and a source location data element;

a related product element for defining a product or item identifier;

a related document data element for defining a related purchase order element; and

- a custom data element for defining customized attributes for the inventory transaction information.
31. **(Currently amended)** The data structure of Claim 30, wherein:
- the identifier data element **includes comprises** a product serial number or an item serial number;
 - the destination location data element **includes comprises** a destination bucket code element and a destination inventory location identifier element;
 - the source location data element **includes comprises** a source bucket code element and a source inventory location identifier; and
 - the related purchase order element **includes comprises** a purchase order element for defining purchase-order-type elements that **include comprise**:
 - a common object row identifier element;
 - a purchase order base data element wherein the purchase order base data element **includes comprises** a purchase order number;
 - a list of purchase order line item element, wherein the list of purchase order line item element **includes comprises** a plurality of purchase order line items; and
 - a purchase order custom data element.
32. **(Currently amended)** The data structure of Claim 31, wherein each of the plurality of purchase order line items **includes comprises**:
- a purchase order line item number identifier element;
 - a purchase order line item base data element; and
 - a purchase order line item custom data element.
33. **(Currently amended)** The data structure of Claim 32, wherein the purchase order line item base data element **includes comprises** a purchase order line item number.